

(d) amino acids 1136-1278 of a type F botulinum toxin (SEQ ID NO: 4)

6. (Four Times Amended) An isolated polypeptide comprising a dimer of the sequences selected from the group consisting of:

- (a) amino acids 848-1278 of a type F botulinum toxin (SEQ ID NO: 1)
- (b) amino acids 848-991 of a type F botulinum toxin (SEQ ID NO: 2)
- (c) amino acids 992-1135 of a type F botulinum toxin (SEQ ID NO: 3), and
- (d) amino acids 1136-1278 of a type F botulinum toxin (SEQ ID NO: 4)

7. (Four Times Amended) A polypeptide composition comprising:

- (1) an isolated polypeptide according to claim 5; and
- (2) an isolated polypeptide that facilitates or enhances purification of the composition.

8. (Three Times Amended) A polypeptide composition comprising an isolated fusion protein of a sequence of amino acids selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4 fused to a polypeptide that facilitates or enhances purification of the composition.

12. (Three Times Amended) A vaccine comprising a pharmaceutically acceptable carrier and a polypeptide according to claim 5.

19. (Three Times Amended) A pharmaceutical composition comprising:

- (a) a fusion protein, said protein being a fusion of (i) a polypeptide as described in claim 5, and (ii) a polypeptide that binds to a chromatography column; and
- (b) a pharmaceutically acceptable carrier.

21. (Three Times Amended) A pharmaceutical composition according to Claim 19 wherein the fusion protein comprises a polypeptide that binds to an affinity chromatography column.

26. (Amended) An isolated fusion protein comprising (1) a sequence of amino acids selected from the group consisting of SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, and SEQ ID NO:4, and (2) a polypeptide that facilitates or enhances purification of the fusion protein.

28. (Twice Amended) The fusion protein of claim 26 wherein said *C. botulinum* amino acid sequence consists of SEQ ID NO: 1.

30. (Twice Amended) The fusion protein of claim 26 wherein said amino acid sequence comprises at least one amino acid sequence selected from SEQ ID NO: 2, SEQ ID NO: 3, SEQ ID NO: 4.